

CLAIMS

1. A fuel cartridge that houses a liquid fuel, comprising a gas-liquid separation film that separates the liquid fuel and fuel gas, which is vaporized liquid fuel, from each other.

2. The fuel cartridge according to claim 1, further comprising a gas housing chamber that houses the fuel gas separated by the gas-liquid separation film.

3. The fuel cartridge according to claim 1 or 2, further comprising a shutter that adjusts a degree of exposure of the gas-liquid separation film.

4. The fuel cartridge according to any one of claims 1 to 3, further comprising a discharge port that discharges the fuel gas separated by the gas-liquid separation film to the outside of the fuel cartridge.

5. The fuel cartridge according to claim 4, further comprising discharged amount adjusting mechanism that adjusts an amount of the fuel gas discharged from the discharge port.

6. A fuel cell comprising:
a fuel cartridge that houses a liquid fuel;
a recovery section that recovers fuel gas, which is vaporized liquid fuel and is housed in the fuel cartridge; and
a discharged amount control section that controls an amount of the fuel gas discharged from the fuel cartridge to the recovery section.

7. The fuel cell according to claim 6, further comprising:
a discharge passage that discharges the fuel gas recovered to the recovery section to the air; and

an oxidizing treatment section that is provided in the discharge passage and oxidizes the fuel gas.

8. The fuel cell according to claim 6 or 7, wherein the fuel cartridge comprises a gas-liquid separation film that separates the liquid fuel and the fuel gas from each other and the fuel cartridge is adapted to recover to the recovery section the fuel gas separated by the gas-liquid separation film.

9. A fuel cell comprising:
a fuel cartridge that houses liquid fuel and comprises a gas-liquid separation film that separates the liquid fuel and fuel gas, that is vaporized liquid fuel, from each other;

a recovery section that recovers the fuel gas separated by the gas-liquid separation film in the fuel cartridge;

a discharge passage that discharges the fuel gas recovered to the recovery section to the air; and

an oxidizing treatment section that is provided in the discharge passage and oxidizes the fuel gas.

10. The fuel cell according to any one of claims 6 to 9, wherein the fuel cartridge is the fuel cartridge according to any of claims 1 to 5.

11. The fuel cell according to any one of claims 6 to 10, wherein the fuel cartridge is detachably mounted.

12. A portable electrical appliance comprising a fuel cell according to any one of claims 6 to 11.